

Amruthbalu M

Software Engineer with a passion for problem-solving and building innovative solutions.

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WORK EXPERIENCE

KPMG Global Services

Associate Consultant

October 2024 - Present

- Built a comprehensive solution utilizing Spring Boot, RESTful Web services, and microservices architecture to map suppliers with buyers within the supply chain management module. This approach significantly improved scalability and modularity while achieving a 50% reduction in manual testing efforts and 20% increase in process efficiency.
- Developed an end-to-end automation framework using Playwright Java for global clients in Oracle ERP and SCM domains. Leveraged Object-Oriented Programming principles and best practices to significantly reduce manual testing efforts by over 60% and increase test coverage by 40%, all while adhering to agile methodologies, resulting in digital transformation for clients.
- Formulated a detailed set of test scripts and technical design documents via the KPMG Powered AI Agent, driving the development of a new framework that improved defect identification rates during testing by 25%.

Analyst

November 2022 - October 2024

- Played crucial role in implementing automation framework and test suites for 3000+ test cases using Opkey automation, covering multiple platforms such as Workday, Oracle, and Microsoft Dynamics across ERP, SCM, HCM, and EPM modules.
- Additionally, designed solutions/POC's on top of the automation framework to streamline repetitive tasks such as report generation, data import, and export, significantly reducing manual effort.

EDUCATION

Bapuji Institute of Engineering and Technology

Major in Electronics and Communication Engineering

July 2018 - August 2022

PROJECTS

Supplier Buyer Mapping Tool using Spring Boot

- Developed a Spring Boot application with a dynamic PostgreSQL database, incorporating a matching algorithm and integrating multiple layers to create a microservice using RESTful Web Services. Implemented a matching service algorithm along with controller and model layers, establishing one-to-one mapping of buyers and suppliers based on industries.
- Adhered to coding best practices and applied Object-Oriented Programming principles and data structures in Java for a Spring Boot application.

Powered Test Automation Development

- Designed and built comprehensive automation test suites for Oracle ERP, Finance, and HCM domains, effectively serving a diverse range of global clients primarily within the retail sector. Leveraged powerful Java-based automation tools such as Playwright and Opkey to ensure rigorous and efficient testing processes.
- Created automation test cases that encompass integration tests, unit tests, and intricate end-to-end business scenarios. Incorporated over 1000 reusable libraries into the automation framework, ensuring optimal reusability, adherence to industry best practices, and significant reduction in manual effort, ultimately enhancing overall test coverage and reliability.

Automation Solutions

- Engineered an automated solution for FBDI (File Based Data Import) within the Oracle ERP application, enhancing efficiency and reducing effort by over 40% during CRP events.
- Built an automated framework for the scheduled processes module in Oracle ERP, enabling automatic extraction of a large number of reports and significantly enhancing efficiency.
- Innovatively implemented a single reusable code for the Data Management module to facilitate package imports into the Microsoft Dynamics application.
- Contributed to a 20% growth in client acquisition and overall business expansion by creating impactful demos/RFP for automated solutions

SKILLS

Programming Languages/Technologies: Core Java, SQL, Python, Artificial Intelligence, NLP

Frameworks: Java Spring Boot, React.js

Database/Cloud: PostgreSQL, Azure Fundamentals

Domains: Finance and HCM, Proficient in Oracle ERP

Soft Skills: Effective Communication, Problem Solving, Conflict Resolution, Resilient, Adaptable

Methodologies: Agile, Scrum

Certification: ISTQB Certified